



Tripp Lite
1111 West 35th Street
Chicago, IL 60609 USA
Telephone: +(773) 869 1234
E-mail: saleshelp@tripplite.com

Model #: SU3000RTXLCD3U

SmartOnline 3kVA On-Line Double-Conversion UPS, 3U Rackmount, Interactive LCD display, 100/110/120/127V NEMA outlets

Highlights

- 3000VA / 3kVA / 2700W on-line double-conversion 3U rackmount UPS
- 100/110/120/127V 50/60Hz output; High efficiency economy mode option
- Interactive LCD with 9 selectable screens of UPS and site power data
- Expandable runtime, Hot-swap batteries, 26 in / 66cm depth
- USB, RS232 & EPO ports, support for SNMP/WEB card option
- 2 independently switched load banks
- NEMA L5-30P input; 4 NEMA 5-15R, 4 5-15/20R & 1 L5-30R outlets



Description

Tripp Lite Smart Online UPS systems offer high performance power protection ideal for critical server and network equipment in datacenters, computer rooms and network closets. Online, double-conversion Uninterruptible Power Supply (UPS) maintains perfectly regulated output power by continuously converting raw AC input to DC, then re-converting output back to AC. Fully regulated sine wave AC output with +/-2% voltage regulation powers network equipment continuously, even during severe brownouts and overvoltages, all without depleting UPS battery reserves. Maintains battery-derived AC output during power failures with zero transfer time. Extended runtime options available. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Highly efficient operation in optional economy mode saves BTU heat output and energy costs. Network management interfaces support communications via USB, RS-232, contact-closure and optional SNMPWEBCARD network interface. Built-in DB9 port offers both enhanced RS-232 data and basic contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. LED display reports UPS operating mode, line power availability, battery mode operation, inverter operation, ECO mode status and output power availability. Audible alarm with push-button momentary alarm-cancel and silent-mode LCD configuration options. Programmable self-test. Battery independent restart. Fault-tolerant auto-bypass mode. Field-replaceable, hot-swappable internal batteries and external battery packs.

Package Includes

- SU3000RTXLCD3U UPS System
- PowerAlert Software with USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Instruction manual

Features

- Tripp Lite SU3000RTXLCD3U 3000VA / 3kVA / 2700W on-line, double-conversion 3U rackmount UPS
- Selectable 100/110/120/127V output (120V factory preset)
- NEMA L5-30P input, 4 NEMA 5-15/20R, 4 5-15R & 1 L5-30R outlets
- Two switched 4-outlet load banks support remote reboot or programmable load shedding options
- Supports 2% output voltage regulation and zero transfer time in double conversion mode
- Economy mode option offers enhanced efficiency, reduced power consumption and lower BTU emissions
- 11 minutes runtime at 50% load (1350W) and 4 minutes at 100% load (2700W) with internal batteries
- BP72V15-2U (limit 1) or BP72V28RT3U (no limit) external battery packs available (some configurations require Tripp Lite's [External Battery Configuration Software](#))
- LCD interface reports operating mode plus 9 selectable screens of UPS data (Load percentage, kW & kVA, Power factor, Input voltage & frequency, Output voltage & frequency, Battery voltage and charge percentage, Minutes runtime, Capacity remaining and Kw/hr. consumption)
- LCD interface also supports 16 screens of UPS configuration and setup options

- 4 post installation hardware included, Optional 2POSTRMKITHD enables 2 post rack installation
- Single line TEL / Network surge suppression
- Electronic bypass maintains utility output during a variety of UPS fault conditions
- Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement
- Frequency regulation / conversion mode offers generator-compatible frequency correction or conversion of frequency from 50 to 60Hz or 60 to 50Hz
- Built-in USB, RS-232, contact-closure and optional SNMPWEBCARD accessory monitoring options
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software

Specifications

| OUTPUT | |
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| Output Volt Amp Capacity (VA) | 3000 |
| Output kVA capacity (kVA) | 3 |
| Output Watt Capacity (watts) | 2700 |
| Output kW capacity | 2.7 |
| Output power factor | 0.9 |
| Output Capacity Details | ON LINE MODE: Maximum output capacity ratings are reduced for some nominal voltage settings (127/120V 2700 watts / 115V 2430 watts / 110V 2295 watts / 100V 2160 watts). FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1890 watts / 115V 1701 watts / 110V 1606 watts / 100V 1512 watts). |
| Crest Factor | 3:1 |
| Nominal Output Voltage(s) Supported | 100V; 110V; 115V; 120V; 127V |
| Nominal Voltage details | 120V factory-default nominal voltage |
| Frequency compatibility | 50/60 Hz (auto-selectable); Supports 50 to 60 Hz and 60 to 50 Hz conversion |
| Frequency compatibility details | ON LINE MODE: Output frequency is automatically configured to match nominal input frequency on startup; Output matches input frequency when +/-5Hz of nominal; Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal. UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. FREQUENCY REGULATION / CONVERSION MODE: Output is regulated to +/-0.05Hz of selected output frequency input is 40 to 70Hz; UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. BATTERY MODE: Output is regulated to +/-0.05Hz. |
| Output voltage regulation (line mode) | +/- 2% |
| Output voltage regulation (Economy line mode) | +/- 10% |
| Output voltage regulation (Battery mode) | +/- 3% |
| Built-in UPS output receptacles | 4 5-15R outlet(s); 4 5-15/20R outlet(s); 1 L5-30R outlet(s) |

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| Built-in controllable switched load banks | Two switchable four-outlet load banks |
| Output AC waveform (AC mode) | Pure Sine wave |
| Output AC waveform (battery mode) | Pure Sine wave |
| INPUT | |
| Rated input current (at maximum load) | 24A |
| Nominal Input Voltage(s) Supported | 100V AC; 110V AC; 115V AC; 120V AC; 127V AC |
| Nominal input voltage description | 120V factory default |
| UPS input connection type | L5-30P |
| Input circuit breaker | 40A |
| UPS Input cord length (ft.) | 10 |
| UPS Input cord length (m) | 3 |
| Recommended Electrical Service | 30A 120V |
| BATTERY | |
| Full load runtime (minutes) | 4 min. (2700w) |
| Half load runtime (minutes) | 11 min. (1350w) |
| Expandable battery runtime | Extended runtime supported via optional external battery packs |
| External battery pack compatibility | BP72V15-2U (limit 1); BP72V28RT-3U (multi-pack compatible) |
| Expandable runtime description | Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details |
| DC system voltage (VDC) | 72 |
| Battery recharge rate (included batteries) | Less than 3 hours recharge to 90% |
| Replacement battery cartridge (internal UPS battery replacement) | RBC96-3U |
| Battery Access | Front panel battery access |

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| Battery replacement description | Hot-swappable, user replaceable batteries |
| VOLTAGE REGULATION | |
| Voltage regulation description | Online, double-conversion power conditioning maintains 2% output voltage regulation during brownouts and overvoltages |
| Overvoltage correction | Corrects overvoltages to 150V (0-100% load) |
| Undervoltage correction | Corrects undervoltages to 100V at full load (90V at 100V nominal) |
| Severe undervoltage correction | Corrects brownouts to 70V (70% load) & 55V (33% load) |
| LEDS ALARMS & SWITCHES | |
| LED Indicators | 7 front panel LEDs indicate line power availability, AC to DC conversion, battery mode operation, inverter mode, eco mode operation, bypass mode operation and AC output status |
| Front panel LCD display | Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, frequency, operating mode, alarm function and a variety of additional options |
| Alarms | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions |
| Alarm cancel operation | Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available |
| Switches | 2 switches control off/on power status and alarm-cancel operation; 2 additional scroll-down and scroll-up / select options enable LCD status viewing and configuration options |
| SURGE / NOISE SUPPRESSION | |
| UPS AC suppression joule rating | 570 |
| UPS AC suppression response time | Instantaneous |
| UPS Dataline suppression | 1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet |
| EMI / RFI AC noise suppression | Yes |
| PHYSICAL | |
| Installation form factors supported with included accessories | 4 post 19 inch rackmount (mounting rail kit included) |
| Installation form factors supported with optional accessories | 2 post rackmount (2POSTRMKITHD) |
| Primary form factor | Rackmount |
| UPS / Power Module dimensions in primary form factor (height x width x depth / inches) | 5.2 x 17.5 x 26 |

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| UPS / Power Module dimensions in primary form factor (height x width x depth / cm) | 13.2 x 44.4 x 66 |
| Installed whole system total rack space height (rack spaces) | 3U |
| UPS / Power Module weight (lbs) | 74 |
| UPS / Power Module weight (kg) | 33.6 |
| UPS Shipping dimensions (height x width x depth / inches) | 12 x 23 x 33 |
| UPS Shipping dimensions (height x width x depth / cm) | 30.5 x 58.4 x 83.8 |
| Shipping weight (lbs) | 120 |
| Shipping weight (kg) | 54.4 |
| UPS housing material | Steel |
| Cooling method | Fan |
| ENVIRONMENTAL | |
| Operating Temperature Range | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius |
| Storage Temperature Range | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius |
| Relative Humidity | 0 to 95%, non-condensing |
| AC mode BTU / hr. (full load) | 1025 |
| AC economy mode BTU / hr. (full load) | 585.9 |
| Battery mode BTU / hr. (full load) | 1258 |
| AC economy mode efficiency rating (100% load) | 94% |
| Operating Elevation (ft) | 0-3000m / 0-10,000 ft. |
| Audible Noise | 50 dBA at 1m front side |
| COMMUNICATIONS | |
| Communications interface | USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface |

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|---|---|
| Network monitoring port description | Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications |
| PowerAlert software | Included |
| Communications cable | USB and DB9 cabling included |
| WatchDog compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| LINE / BATTERY TRANSFER | |
| Transfer time | Zero (0 milliseconds) in double-conversion mode; 4 milliseconds economy mode |
| Low voltage transfer to battery power (setpoint) | 55V at 33% load, 70V at 70% load, 100V at 100% load (90V full load at 100V nominal setting) |
| High voltage transfer to battery power (setpoint) | 150 |
| SPECIAL FEATURES | |
| Cold Start (startup in battery mode during a power failure) | Cold-start operation supported |
| High availability UPS features | Automatic inverter bypass; Hot swappable batteries |
| Green & high efficiency features | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation |
| CERTIFICATIONS | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances) |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |

Related Items

Optional Products

| Related Model | Description | Qty. |
|---------------------------------|--|------|
| BP72V15-2U | BP72V15-2U - External Battery Pack for UPS System | 1 |
| BP72V28RT-3U | BP72V28RT-3U - External Battery Pack for UPS System | 1 |
| SNMPWEBCARD | For remote monitoring and control via SNMP, Web or Telnet | 1 |
| ENVIROSENSE | Monitors temperature, humidity and contact-closure inputs. (Requires UPS with SNMPWEBCARD, monitored PDU or switched PDU.) | 1 |
| WEXT3-2200-3000 | 3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA | 1 |

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|-----------------|--|---|
| WEXT5-2200-3000 | 5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less | 1 |
| MODBUSCARD | For remote monitoring and control via MODBUS protocol | 1 |
| RELAYIOCARD | Programmable Relay I/O Card | 1 |
| AS400CABLEKIT2 | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers | 1 |
| 2POSTRMKITHD | Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components | 1 |
| PDUB30 | Single-Phase Hot-Swap PDU, 30A 120V, 2U Horizontal Rackmount, NEMA 5-15/20R & L5-30R outlets, set of 2 NEMA L5-30P input plugs | 1 |
| PDU2430 | Single-Phase Basic PDU, 30A 120V, 1U Horizontal Rackmount, NEMA 5-15R outlets, NEMA L5-30P input plug | 1 |
| PDUMV30 | Single-Phase Metered PDU, 30A 120V, 0U Vertical Rackmount, NEMA 5-15/20R outlets, NEMA L5-30P input plug | 1 |
| PDUMV30NET | Single-Phase Switched PDU, 30A 120V, 0U Vertical Rackmount, NEMA 5-15/20R outlets, NEMA L5-30P input plug | 1 |
| PDUMH30NET | Single-Phase Switched PDU, 30A 120V, 2U Horizontal Rackmount, NEMA 5-15/20R outlets, NEMA L5-30P input plug. | 1 |
| PDUMNV30 | Single-Phase Monitored PDU, 30A 120V, 0U Vertical Rackmount, NEMA 5-15/20R outlets, NEMA L5-30P input plug | 1 |
| P043-002 | 2-ft. 10AWG Heavy Duty Power Cord with 20 AMP Breaker, (NEMA L5-30P to NEMA L5-20R) | 1 |
| P044-06I | 6-inch 12AWG Heavy Duty Power Adapter cord (NEMA-L5-20R to NEMA-5-20P) | 1 |
| P049-010 | 10-ft. 12AWG Heavy Duty Power cord (IEC-320-C19 to NEMA 5-20P) | 1 |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?variables.txtModelID=5071.

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